BRUHAT BANGALORE MAHANAGARA PALIKE

Dasarahalll Zone, Electrical Division

Schedule-B

Name of work :- Modified Estimate For Providing LED Street lights/Poles/Control switches/control wires at Dark/volernabal places In Ward no 12

Sl No	Description Of Work	Unit	Qty	Rates Quoted By Contractor NAGARAJU LINGAIAH (VEDHA ELECTRICALS)	
				In Figure(Rs)	In Words
1	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Powerconsumption LED Efficiency>130lm/w, nominal CRI >75 Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source LED Streetlight 90 Watts	Nos	1800 00	7625.4	Rupees Seven Thousand Six Hundred Twenty and Four Paise Only
2	Fabricating, supplying and erecting swaged tubular pole of height ...Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enamelled paint of approved quality and colour and M.S. base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch, The pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0.6M above ground level as per IS 2713 - 7 Erection of heavy duty pole on Footpath / median 9Mt (5Mt Hb,165.1mm dia 4.85mm thick x2M Hm, 139.7mm dia 4.50mm thick x 2M Ht,114.3mm dia 3.65mm thick) as per IS 410 SP 32	Nos	106 00	14058	Rupees Forteen Thousand Fifty Eight Only
3	Supplying, and fixing of Hot dip Galvanized M.S.Bracket suitable for out door luminaries and mounted on Octagonal pole using necessary bolts, nuts etc., complete Single Arm Bracket with 1500mm Standard 40/50MM dia	Nos	106 00	2249 28	Rupees Two Thousand Two Hundred Forty Nine and Twenty Eight Paise Only

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4	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires	Nos	1800 00	186.38	Rupees One Hundred Eighty Six and Thirty eight Paise Only
5	Supplying and Fixing of mm dia class A GI pipe bracket up to 2 Mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires Using 32mm dia G I Pipe	Nos	1750 00	889 28	Rupees Eight Hundred Eighty Nine and Twenty Eight Paise Only.
6	Supplying of 1 1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm	Nos	1200 00	159 75	Rupees One Hundred Fifty Nine and Seventy Five Paise Only.
7	Wiring for lighting/power circuit using one of PVC insulated 1100V grade, stranded Aluminium wire single core in open or concealed system of wiring 4 sqmm	Mtrs	4900 00	9 59	Rupees Nine and Fifty Nine Paise Only
8	Supplying of 1 1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 3.5 core 25 sqmm	Mtrs	678 00	191 7	Rupees One Hundred Ninty One and Seeven Paise Only.
9	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required 6 sqmm to 16 sqmm	Mtrs	1200 00	12 65	Rupees Twelve and Sixty Paise Only
10	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required 25sqmm to 75 sqmm	Mtrs	678 00	16 51	Rupees Sixteen and Fifty One Paise Only.
11	Digging of trench of 0 6m deep x 0 50 mtr wide refilling the trench to the required ground level and consolidating etc , complete (As per Civil SR KSRB I-2, P-7)In soil (ordinary)	Mtrs	1000 00	80 94	Rupees Eighty and Ninty Four Paise Only.
12	Supplying, fixing, wiring, earth electrode for grounding conduits, I C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2 5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth The connection from the pipe to the conduit etc , is to be established through GI wire of size as per ISI specification 7 3 3 of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia	Mtrs	8 00	3194 68	Rupees Three Thousand One Hundred Ninty Four and Sixty Eight Paise Only
13	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required 25x3mm GI strip	Mtrs	40 00	79 88	Rupees Seventy Nine and Eighty Eight Paise Only
14	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete 16SWG	Mtrs	245000 00	0 37	Thirty Paise Only
15	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint 40x40x5mm	Nos	25 00	271 58	Rupees Two Hundred Seventy One and Fifty Seven Paise Only

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16	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics)FOUR POLE 100Amps 25kA.	Nos	7.00	6816	Six Thousand Eight Hundred Sixteen Only
17	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers.	Nos	7.00	4291.95	Rupees Four Thousand Two Hundred Ninty One and Ninty Five Only.
18	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.100 to 125Amps	Nos	7.00	7668	Rupees Seven Thousand Six Hundred Sixty eight Only.
19	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.50-63Amps TPN	Nos	10.00	2552.81	Rupees Two Thousand Five Hundred Fifty Two and Eighty One Paise Only.
20	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches, regulators etc , and fixing on existing wooden or metal box using N.F. screws.	Sqcms	70000.00	0.29	Twenty Nine Paise Only.
21	Supplying and drawing Flexible Multicore Cable manufactured with electrolytic grade flexible copper with low conductor confirming to IS:8130-1984 and (Virgin) PVC insulation sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 3C X 1.5Sq.mm	Mtrs	250.00	58.58	Rupees fifty Eight and Fifty Eight Paise Only.
22	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments.6 sqmm	Mtrs	62.00	74.55	Rupees seventy Four and FiftyFive Paise Only.
23	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.a)1.5 sqmm	Nos	150.00	3.20	Rupees Three and Ninteen Paise Only.
24	b) Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes6 Sqmm	Nos	120.00	7.46	Rupees Seven and Forty Five Paise only.
25	c) Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes16 Sqmm	Nos	600.00	13.25	Rupees thirteen and Twenty Five Paise Only.
26	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.40mm	Nos	10.00	356.78	Rupees Three Hundred Fifty Sixe and Seventy Eight Only.
27	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.25Sqmm	Nos	8.00	372.75	Rupees Three hundred Seventy Two and Sevnty Five Paise only.

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37	Fabricating, supplying and erection of Mtrs long hot dip Galvanized Octagonal pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for ..... Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom ..... mm, top ... mm with 3mm thick, suitable base plate and 4Nos of ..... long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc., (excluding foundation) as per drawing appended. 3 meters - Top 70mm and bottom 130mm dia	Each	75	5708.40	Rupees FiveThousand Seevn Hundred Eight Only.
38	Eartwork excavation for foundation of buildings,water supply,sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches,stacking the excavated soil clear from edges of excavation with lead upto 50m. including breaking of clods complete as per specifications. KSRB 2.1.1.- do-Ordinary soil	Cum	18.75	362.78	Rupees Three Hundred Sixty Two and Seventy Eight Paise Only.
39	KSRB 4-6.1: Provding and removing centering, shuttering, strutting, propping etc , and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications (p.NO-16, I No-4.28)	Sqmtrs	32.40	291.26	Rupees Two Hundred Ninty One and Twenty Six Only
40	KSRRB ..Providing and laying in position plain cement concrete of nominal mix 1:4:8 with OPC @ 180Kgs,with using 40 mm and down size graded granite metal coarse aggregates @0.85cum and fine,aggregates @ 0.57cum mechine mixed concrete laid in layers not exceeding 15cm thick well compacted,in foundation and plinth,including cost of all materials ,labour,HOM machinaries ,curing	Cum	0.9375	6181.05	Rupees Six Thousand One Hundred Eighty One and Five Paise Only
41	KSRB 4.9.2 Providing T M .T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery omplete as per specifications Specification No. KBS 4.6.3 (12mm, 0.89kgm & 8mm, 0.39kg/m @ 150mm c/c)	Kgs	582.48	98.68	Rupees Ninty Eight and Sixty Eighth Paise Only.
42	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M 20 for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, for raft foundation column footing , main and secondary beams with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.)4.48	cum	8.1	6894.90	Rupees six Thousand Eight Hundred Ninty Four and Ninty Paise Only.

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Proprietor

Signature of the Contractor

Executive Engineer(Ele)
Dasarahalli Zone
BBMP Bangalore-73

Executive Engineer (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone

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